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EXAMINER

AMINI, JAVID A

ART UNIT

PAPER NUMBER

2672

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Please find below and/or attached an Office communication concerning this application or proceeding.

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# Office Action Summary

Application No.

09/579,626

Applicant(s)

AHO ET AL.

Examiner

Javid A Amini

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

*Response to Arguments*

Applicant's arguments filed 14 January 2003 have been fully considered but they are not persuasive.

In Applicant's arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections. In page 5 lines 7-10, claims 1, 3 and 11, applicant recite the limitation "set intervals". There are insufficient antecedent basis for these limitations in the claims or in specification.

In page 5 lines 11-13, claims 4-7, applicant responses are not persuasive.

Applicant must be able to define the "certain amount" and specify a value for it, because if the device's display is known, therefore, the applicant should be able to calculate or dedicate portion of display for that function (example: if the display size is 1-100 cm then 1/2, 2/3, 1/4 or etc. of full display is called a certain amount of display). A person skilled in the art does not understand the term "certain amount" upon reading the specification. In page 6 lines 14-15, claim 9, applicant response is not persuasive because the amount of display still does not specify.

In page 6-7 lines 16-29; and 1-11, claims 1-7, and 9-16 applicant responses are not persuasive, because the set interval is not known in the specification and in the claims, also Rader discloses in abstract that partial display field, or area is controlled to generate images in a first operating mode to conserve power (meaning: to prevent burn-in).

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**List of claims:**

**Claim 8 (canceled without prejudice)**

**Claim 1 (amended):** wherein said display element has two modes, a full-screen mode to use the entire display element to display a first information and a partial screen mode to use a first part of the display element in which partial screen mode a second part of the display element is switched off; and the device comprises: means for switching the device into energy conservation mode by switching the display element to said partial screen mode; means for controlling the display element during energy conservation mode to display information on said first part; and changing means for changing the position of the first part of the display element on the display element at set intervals in order to avoid display burn-in.

**Claim 3 (amended):** wherein the changing means is arranged to change the position of the first part in a certain order in certain intervals.

**Claim 4 (amended):** A device according to claim 1, wherein the changing means is arranged to randomly change the position of said first part.

**Claim 5 (amended):** A device according to claim 1, wherein the changing means is arranged to change the position of said first part by scrolling the position on the display element.

**Claim 6 (amended):** A device according to claim 1, wherein said first part comprises a certain amount of rows.

**Claim 7 (amended):** A device according to claim 1, wherein said first part comprises a certain amount of columns.

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**Claim 9 (amended):** A device according to claim 1, which device comprises means for ending the energy conserving mode in response to one of the following events: user input, incoming call, an increase in the amount of displayed information and a combination of these.

**Claim 11 (amended):** A method for decreasing the energy consumption of an electronic device, wherein a first part of the display element is used and a second part of the display element is switched off to conserve energy; information is presented on the first part of the display element; and changing means for changing the position of the first part of the display element on the display element at set intervals in order to avoid display burn-in.

**Claims 12 (new):** A device according to claim 1, wherein the changing means is arranged to change the information displayed on the first part of the display element.

**Claim 13 (new):** An electronic device comprising: a display element to display information, wherein said display element has two modes, a full-screen mode to use the entire display element to display a first information and a partial screen mode to use a first part of the display element in which partial screen mode a second part of the display element is switched off; means for switching the device into energy conservation mode by switching the display element to said partial screen mode; means for controlling the display element during energy conservation mode to display information on said first part; and changing means for changing the position of the first part of the display element on the display element at set intervals in order to avoid display burn-in.

**Claim 14 (new):** A device according to claim 13, wherein the changing is arranged to change the position of said first part of the display element on the display element.

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**Claim 15 (new):** A method for decreasing the energy consumption of an electronic device, wherein a first part of the display element is used and a second part of the display element is switched off to conserve energy; information is presented on the first part of the display element; and the method further includes changing information displayed on the first part of the display element at set intervals in order to avoid display burn-in.

**Claim 16 (new):** A method according to claim 15, further comprising changing the position of the first part of the display element on the display element.

***Claim Rejections - 35 USC § 102***

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1-11 rejected under 35 U.S.C. 102(b) as being anticipated by Rader US patent 5,867,140 filing date of 11/27/1996.

1. As per claim 1,

Rader discloses in (Col. 3, line 48-52) that the full display mode can be automatically activated when the cover is opened and the partial display mode can be automatically entered when the cover is closed responsive to the inputs from the sensors.

Rader discloses in abstract that partial display field, or area, is controlled to generate images in a first operating mode to conserve power .

Rader discloses in (Col. 3, line 44-45) that the CPU responds to these sensors to control the display panel to display an image only in the partial display field.

2. Claim 2,

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Rader discloses in (Col. 3, line 44-45) that the CPU responds to these sensors to control the display panel to display an image only in the partial display field.

Rader discloses in (Con. 8, line 21-23) that if 4 bit gray scale is employed the image capable of being rendered is reduced by a factor of four. This skill is very well known in the art.

3. Claim 3,

Rader discloses in (col. 8, line 30-32) the partial display field can be placed at any region of the full display screen area by selecting the rows and columns to be controlled by the pixel off signal.

4. Claim 4,

Rader discloses in (col. 8, line 30-32) that the partial display field can be placed at any region of the full display screen area by selecting the rows and columns to be controlled by the pixel off signal.

5. Claim 5,

Rader discloses in (col. 8, line 60-65) that Additionally, the output switch can be controlled so as to blank different rows and columns, thus changing the location of the partial display field. By changing the blanked columns and rows, the partial display field sourced from the second buffer can be placed in different areas of the display screen.

6. Claim 6,

Rader discloses the amount of rows and columns in the partial display field see rejection of claim

7. Claim 7,

Rader discloses the amount of rows and columns in the partial display field see rejection of claim.

8. Claim 9,

Rader discloses in (Col. 3, line 40-44) that the CPU in Fig. 3 also has an internal sensor (not shown) that detects inactivity. If the CPU receives no inputs from the user input and RF circuit for a predetermined period of time, the CPU can enter a sleep mode.

9. Claim 10,

Rader discloses in Fig. 1 and 2 a mobile station.

10. Claim 11,

Rader discloses in (3, line 44-52) that the CPU in Fig. 3 (segment # 312) responds to these sensors to control the display panel to display an image only in the partial display field when the phone enters a "sleep mode" due to inactivity of the processor, or when the phone is active while the cover 108 is closed. The full display mode can be automatically activated when the cover 108 is opened and the partial display mode can be automatically entered when the cover 108 is closed responsive to the inputs from the sensors.

11. Claims 12,

As for "A device according to claim 1, wherein the changing means is arranged to change the information displayed on the first part of the display element", Rader discloses in (Col. 3, line 44-45) that the CPU responds to these sensors to control the display panel to display an image only in the partial display field (the first part of display).

12. Claim 13,

As for "An electronic device comprising: a display element to display information, wherein said display element has two modes, a full-screen mode to use the entire display element to display a



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first information and a partial screen mode to use a first part of the display element in which partial screen mode a second part of the display element is switched off; means for switching the device into energy conservation mode by switching the display element to said partial screen mode; means for controlling the display element during energy conservation mode to display information on said first part; and changing means for changing the position of the first part of the display element on the display element at set intervals in order to avoid display burn-in”.

Rader discloses in (Col. 3, line 48-52) that the full display mode can be automatically activated when the cover is opened and the partial display mode can be automatically entered when the cover is closed responsive to the inputs from the sensors. Rader discloses in abstract that partial display field, or area, is controlled to generate images in a first operating mode to conserve power. Rader discloses in (Col. 3, line 44-45) that the CPU responds to these sensors to control the display panel to display an image only in the partial display field.

13. Claim 14,

As for “A device according to claim 13, wherein the changing is arranged to change the position of said first part of the display element on the display element”. Rader discloses in (Col. 3, line 44-45) that the CPU responds to these sensors to control the display panel to display an image only in the partial display field (the first part of display).

14. Claim 15,

As for “A method for decreasing the energy consumption of an electronic device, wherein a first part of the display element is used and a second part of the display element is switched off to conserve energy; information is presented on the first part of the display element; and the method further includes changing information displayed on the first part of the display element at set

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intervals in order to avoid display burn-in”, Rader discloses in (Col. 3, line 48-52) that the full display mode can be automatically activated when the cover is opened and the partial display mode can be automatically entered when the cover is closed responsive to the inputs from the sensors. Rader discloses in abstract that partial display field, or area, is controlled to generate images in a first operating mode to conserve power. Rader discloses in (Col. 3, line 44-45) that the CPU responds to these sensors to control the display panel to display an image only in the partial display field.

15. Claim 16,

As for “A method according to claim 15, further comprising changing the position of the first part of the display element on the display element”, Rader discloses in (Col. 3, line 44-45) that the CPU responds to these sensors to control the display panel to display an image only in the partial display field (the first part of display).

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1-3, 9 and 11 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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16. Claims 2, and 9 recite the limitation "certain amount of image particles" in claim 2 and "the amount of displayed information" in claim 9. There are insufficient antecedent basis for these limitations in the claims.

Applicant must be able to define the "certain amount" and specify a value for a "the amount of displayed information" in claims mentioned above.

17. Claims 1, 3, 11 recite the limitation "at set intervals". There are insufficient antecedent basis for these limitations in the claims.

***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A Amini whose telephone number is 703-605-4248. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on 703-305-4713. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-8705 for regular communications and 703-746-8705 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-0377.

Javid A Amini  
Examiner  
Art Unit 2672

 Javid Amini  
February 10, 2003

  
**MICHAEL RAZAVI**  
SUPERVISORY PATENT EXAMINER  
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